

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NSAE-00 TRSE-00 EUR-12

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DRAFTED BY COMMERCE-FVANBRUNT:ERS

APPROVED BY EB/ITP/EWT:RWPRACHT

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TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 059557

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IL 1544/45 - DIODES AND
TRANSISTORS

FOLLOWING COVERS TAC RECOMMENDATIONS WITH COMMENTS FROM
C. THORNTON OF FORT MONMOUTH:

1) 1544(A) TAC NOTES THIS A QUESTION FOR DOD. THORNTON
SAYS STILL OF CONCERN. DOES NOT RECOMMEND ANY CHANGE.
1544(B) TAC SAID SHOULD MAKE SOME PROVISION FOR FACT
TRANSISTORS PERFORM THE SAME BASIC FUNCTION. THORNTON
SAYS DETERMINING USEFUL FREQUENCY DIFFICULT. IF WISH
TO GO TO ONE GHZ, OK.
1544(C) TAC SAYS EXCELLENT IF WE WANT. THORNTON CONCURS.
1544(D) TAC RECOMMENDED FASTER SPEEDS -- 1 NANOSECOND
IN SECTION 1 AND 5 TO 10 AMPERES IN SECTION 2. THORNTON
SAID 1 NANOSECOND OK AND PERHAPS AMPERES IN SECTION 2.
1544(E) TAC RECOMMENDED DELETE. THORNTON EXPRESSED
CONCERN. SAYS USING BACKWARD DIODES IN SYSTEMS AND
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EXTENSIVE USAGE OF LOW NOISE TUNNEL DIODES.

2) 1545 (A) TAC - RETAIN. THORNTON - RETAIN.

(B) TAC RECOMMENDED DELETE. THORNTON RECOMMENDED INCLUDE IN (C).

(C) TAC (1) AN AVERAGE FT GREATER THAN 2 GHZ. (2)

A PRODUCT OF THE AVERAGE FT IN GHZ SQUARED AND THE MAXIMUM COLLECTOR DISSIPATION IN WATTS EXCEEDED 2 FOR DEVICES WITH AN FT GREATER THAN OR EQUAL TO 1 GHZ. (3)

A PRODUCT OF THE AVERAGE FT IN GHZ AND THE MAXIMUM COLLECTOR DISSIPATION EXCEEDING 2 FOR THE DEVICES WITH AN FT LESS THAN 1 GHZ. (4) FOR MAJORITY CARRIER DEVICES SUBSTITUTE MAXIMUM OPERATING FREQUENCY FOR FT IN ABOVE SECTIONS.

3) THORNTON EXPRESSED CONCERN THAT THE ABOVE FIGURES EXCEEDED EASTERN EUROPEAN CAPABILITIES AND WOULD IMPROVE BLOC EQUIPMENT. HE WAS PRIMARILY CONCERNED WITH NO LOW NOISE AMPLIFIER TYPES AND FEELS SOME FURTHER PROTECTION ESSENTIAL. WOULD LIKE A MAXIMUM FT FIGURE 1.2 OR 1.3 GHZ. HE WAS CONCERNED THAT CONTINUED USE OF AN AVERAGE FT FIGURE WOULD PERMIT EXPORT OF DEVICES WITH MUCH HIGHER FREQUENCY DISSIPATION. ROBINSON

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